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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10 072,482	02 07 2002	Tomokuni Wauke	9281-4278	3354

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BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60611

EXAMINER

COMAS, YAHVEH

ART UNIT	PAPER NUMBER
2834	

DATE MAILED: 05-07-2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/072,482

Applicant(s)

WAUKE, TOMOKUNI

Examiner

Yahveh Comas

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2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 2/7/2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 503.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1, 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Tajima et al. U.S. Patent No. 5,432,644.

Tajima disclose a an inner rotor (6) use in a disk drive unit comprising a rotor (6) which include a plurality of magnetic poles arranged circumferentially and a stator which is positioned outside a circumference of the rotor, has a core which include a plurality of magnetic poles teeth (9A) which face the rotor (6) in an opposed manner and arranges coil (10) on respective magnetic pole teeth (9A), wherein pitches of the magnetic pole teeth in a rotor circumferential direction along which respective rotor facing surface of the magnetic pole teeth are arranged set smaller than pitches of the rotor in the rotor circumferential direction along which the magnetic pole of the rotor are arranged (see fig. 4). The stator poles teeth (9A) are arranged within 180° with respect to a center angle of the rotor.

3. Claim 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kurauchi et al. U.S. Patent No. 4,769,567.

Kurauchi disclose an inner rotor (4) comprising a rotor (6) which include a plurality of magnetic poles arranged circumferentially and a stator which is positioned outside a circumference of the rotor, has a core which include a plurality of magnetic poles teeth (2) which

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face the rotor (4) in an opposed manner and arranges coil (5) on respective magnetic pole teeth (2), wherein pitches of the magnetic pole teeth (2) in a rotor circumferential direction along which respective rotor facing surface of the magnetic pole teeth (2) are arranged set smaller than pitches of the rotor in the rotor circumferential direction along which the magnetic pole of the rotor are arranged. The pitches of the rotor (P_r) in the rotor circumferential direction along which the magnetic poles of the rotor are arranged are set 1.5 times greater than the pitches of the magnetic pole teeth (P_s) in the rotor circuit eventual direction along which respective rotor facing surfaces are arranged.

4. Claim 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahata et al. JP Patent No. JP 2002-272023A.

Takahata disclose an inner rotor (12) comprising a rotor (12) which include a plurality of magnetic poles (14) arranged circumferentially and a stator which is positioned outside a circumference of the rotor, has a core which include six magnetic poles teeth (4) which face the rotor (12) in an opposed manner and arranges coil (8A) on respective magnetic pole teeth (4), whercin pitches of the magnetic pole teeth (4) in a rotor circumferential direction along which respective rotor facing surface of the magnetic pole teeth (4) are arranged set smaller than pitches of the rotor in the rotor circumferential direction along which the magnetic pole of the rotor are arranged.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yahveh Comas whose telephone number is (703) 305-3419. The examiner can normally be reached on M - F 8:00am - 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 308-0956 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

YC
May 5, 2003


KARL TAMAI
PRIMARY EXAMINER